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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/560,377	06/19/2006	Catherine J. Pachuk	051058-034000-US	3823	
90162 7590 04/19/2011 David S. Resnick		EXAMINER			
Nixon Peabody LLP			PENG	PENG, BO	
100 Summer S Boston, MA 0			ART UNIT	PAPER NUMBER	
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			04/19/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Continuation of 11. The request for reconsideration has been considered but does NOT place the application in condition for allowance for following reasons:

(Prior rejection-maintained) The rejection of Claims 63 and 78 under 35 USC 102(b) as being anticipated by III (US 5,843,770), is maintained for the reason of record and the reason set forth below:

Applicant argues that SEQ ID NO: 1 described by III et al. is a single-stranded 587 nucleotide fragment because the Sequence Listing describes that SEQ ID NO:1 is "single" stranded, and "linear", which is not "double stranded" as required by the claims.

Applicant's argument is not persuasive. The Sequence Listing requires only the primary sequences of the cited sequences, which are in linear formats. The primary sequence of SEQ ID NO:1 of the prior art, shown in the Sequence Listing, is not the conformation of SEQ ID NO:1. It is noted that the Sequence Listing of the instant application also shows that primary sequences of SEQ ID NOs: 3 and 10 are in "single" stranded and "linear" formats. Thus, Applicant's argument based on the primary sequence of SEQ ID NO:1 described in the Sequence Listing is not persuasive.

As indicated in the previous Office action (see Para 10), the RNA of SEQ ID NO: 1 of the prior art comprises "at least 19 contiguous base pair nucleotide sequence of the claimed dsRNA SEQ ID NO: 10". One of ordinary skill in the art knows that RNA inherently forms "a double-stranded conformation".

According to MPEP 2112.0, "Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 5c2 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product".

Applicant has not presented any factual evidence that the nucleic acid sequence of SEQ ID NO:1 of the prior art is not capable of forming a double-stranded conformation. For the reasons set forth above, the rejection is maintained.

(Prior rejection-maintained) The rejection of Claims 63 and 78 under 35 USC 102(b) as being anticipated by Sallberg (US20020155124, published on October 24, 2002: Now US Pat. (6,680,059), is maintained for the reason of record.

In response to Applicant's argument:

Applicant presents the same argument as Sallberg et al. does not teach or suggest that such DNA/RNA hybrids are administered or formed, particularly in vivo. One of skill in

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the art One of skill in the art would understand that double-stranded DNA does not typically generate a DNA/RNA hybrid in vivo. Similarly, while Applicants agree that under the proper conditions, double-stranded DNA can be transcribed in vivo to produce a single-stranded mRNA.

This argument is not persuasive. Sallberg teaches methods of enhancing the immune response of an animal, including humans, using HBV nucleic acid-based antigen, wherein said nucleic acid-based antigens include a nucleotide sequence of HBV SEQ ID No: 14, see e.g. [0017] and [0041]. Sallberg also teaches that a nucleic acid-based antigen can comprise at least 9-25, 25-50, 50-100, 100-200, 200-500, 500-1000, 1000-2000, or 2000-4000 consecutive nucleotides of any one of SEQ ID NO: 14 or an RNA that corresponds to these sequences. Given that an RNA of SEQ ID NO:14 has same sequence as the instant SEQ ID NO:3, one of ordinary skill in the art would understand that the RNA of prior art would inherently form a double-stranded conformation as the RNA of the instant claims.

(Prior rejection-maintained) The rejection of Claims 63-67, 78 and 79 under 35 USC 103(a) as being unpatentable over III (US 5,843,770), Sallberg (US2002/0155124), and McCaffrey (Nature Biotechnology, 21(6):639-644; published online May 12, 2003), is maintained for the reason of record.

In response to Applicant's arguments:

Applicant presents the same arguments as above that the III et al. and Sallberg et al. references do not teach double stranded RNA corresponding to any sequence, let alone double stranded RNA comprising at least 19 contiguous base pair nucleotide sequence in a double-stranded conformation from within a sequence selected from the group consisting of SEQ ID NO: 3 and SEQ ID NO: 10, wherein U is substituted for T. Moreover, McCaffrey does not teach SEQ ID NOs: 3 and 10. The combined teaching fails to teach all elements of the claims.

Applicant's arguments against the III et al. and Sallberg et al. references have been found not persuasive above. Applicant's argument against McCaffrey alone is not persuasive, either, because the cited III and Sallberg references teach dsRNA effector molecules comprising at least 19 contiguous base pair nucleotide sequence in a double-stranded conformation from with SEQ ID NO: 3 or SEQ ID NO: 10. Thus, the combined teaching has taught all elements of the claims. Also see Para 20 the Final Office action. The rejection is maintained.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR systems, see http://piar-direct.uspto.gov. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bo Peng, Ph.D. whose telephone number is 571-272-5542. The examiner can normally be reached on Tu-F, 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Zachariah Lucas can be reached on 571-272-0905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/BO PENG/ Primary Examiner, Art Unit 1648

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	Applicant(s)		
10/560,377	PACHUK ET AL.			
Examiner	Art Unit			
BO PENG	1648			

		BO PENG	1648					
	The MAILING DATE of this communication appe	ears on the cover sheet with the	correspondence add	ress				
THE REPLY FILED 17 November 2010 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.								
1. 🗵	☑ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies; (f) an amendment, affdavit, or other of which places with application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 14.13; (or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:							
a)	The period for reply expiresmonths from the mailing	date of the final rejection.						
b)	no event, however, will the statutory period for reply expire la	mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In eriod for reply expire later than SIX MONTHS from the mailing date of the final rejection. teck either box (a) or (b), ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO						
Eutar	MONTHS OF THE FINAL REJECTION, See MPEP 706.07(n. ' '						
Extensions of time may be obtained under 37 CFR 1.196(a). The date on which the petition under 37 CFR 1.196(a) and the appropriate extension fee aware benefilled in the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set for thin (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filled. In a preduce any earned patent term adjustment. See 37 CFR 1.704(b). VOITCE OF APPEAL								
2. 🗵	The Notice of Appeal was filed on 16 February 2011. A b the date of filing the Notice of Appeal (37 CFR 41.37(a)), appeal. Since a Notice of Appeal has been filed, any reply	or any extension thereof (37 CFR	41.37(e)), to avoid disr	nissal of the				
AME	NDMENTS							
	The proposed amendment(s) filed after a final rejection, I	but prior to the date of filing a brief	, will <u>not</u> be entered be	cause				
	(a) They raise new issues that would require further con		TE below);					
	(b) They raise the issue of new matter (see NOTE belo							
	(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or							
	(d) They present additional claims without canceling a corresponding number of finally rejected claims.							
. –	NOTE: (See 37 CFR 1.116 and 41.33(a)).			DTOL 2041				
	The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). Applicant's reply has overcome the following rejection(s):							
	Newly proposed or amended claim(s) would be all non-allowable claim(s).		timely filed amendmen	nt canceling the				
7. 🗵	For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provide that status of the claim(s) is (or will be) as follows:		ill be entered and an e	xplanation of				
	Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 63-67.78 and 79.							
AFF.	Claim(s) withdrawn from consideration: <u>98-101</u> . IDAVIT OR OTHER EVIDENCE							
AFTION TO NOTHER VIDENCE. S. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be excuse applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary a was not earlier presented. See 37 CFR. 1116(e).								
e. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).								
	☐ The affidavit or other evidence is entered. An explanation							
	DUEST FOR RECONSIDERATION/OTHER							
11. [The request for reconsideration has been considered bu The request for reconsideration has been considered bu reasons; see attached Continuation.	t does NOT place the application it does NOT place the application	n condition for allowar in condition for allowa	nce for following				
12. [Note the attached Information Disclosure Statement(s).	(PTO/SB/08) Paper No(s).						
	Other:	. ,,						
		/BO PENG/						
		Primary Examiner, Art I	Jnit 1648					
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